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SBA

U.S. Small Business Administration
Office of Innovation Research and Technology

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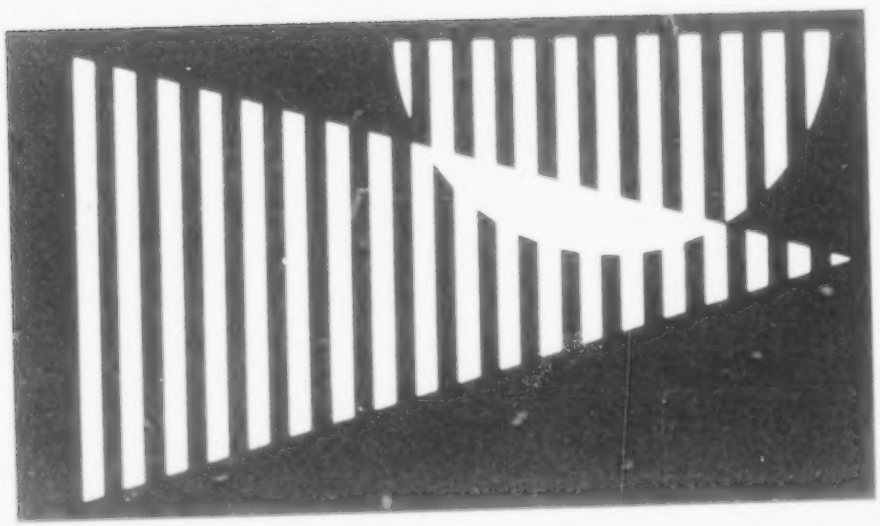
SBIR Pre-Solicitation Announcement

This issue contains information on the following SBIR Agency Solicitations.

National Aeronautics & Space Administration
National Science Foundation
Nuclear Regulatory Commission
U.S. Department of Education
U.S. Department of Health & Human Services
U.S. Department of Transportation



COLUMBIA UNIVERSITY
APR 4 1986
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March 1986

SBIR/PSA

STAMP

Office of Innovation, Research
and Technology
U.S. Small Business Administration
1441 L Street, N.W.
Washington, D.C. 20416

SBA FORM 1386 (10-83) OMB No. 3245-0137

1. ___ I wish to receive the **SBIR Pre-Solicitation** announcements as they become available

NOTE: *Address Should Be Typed Or Printed*

2. Person to Contact _____
3. Title _____
4. Name of Company _____
5. Address _____
6. City _____
7. State _____ Zip Code _____

Please Check **One or More** of the Categories That Describe Your Organization

8. Minority-owned small business (At least 51% owned and operated by a minority person)
9. Woman-owned small business (At least 51% owned and operated by women)
10. Small business (500 or less employees)
11. College or University
12. Community Organization
13. Financial Organization
14. Association
15. Non-Profit Organization
16. Government Office
    - Federal
    - State
    - Local

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I. HOW TO USE THIS SBIR PRE-SOLICITATION ANNOUNCEMENT (PSA)

The purpose of the SBIR Pre-Solicitation Announcement is to provide small business concerns with advance information on upcoming SBIR solicitations about to be released by the Federal agencies participating in the Program.

The U.S. Small Business Administration publishes the SBIR Pre-Solicitation Announcement quarterly -- in March, June, September, and December of each year.

These PSA's contain information on SBIR Program Solicitations scheduled for release during the following 3-month period. For example, a PSA issued in December would include information on SBIR Program Solicitations to be released in January, February, and March.

This publication may also contain information on previously announced SBIR Program Solicitations that have been released but on which the closing date has not as yet passed.

It is suggested that you carefully check this announcement beginning with Federal Agency/SBIR Topics that are available starting on Page 6.

Should you find a topic title that interests you, please contact the Federal agency designated for that topic to request a copy of their SBIR Program Solicitation.

The Small Business Administration does not distribute copies of SBIR Program Solicitations.

II. BACKGROUND ON THE SBIR PROGRAM

The Small Business Innovation Development Act which authorized the Small Business Innovation Research Program, was signed into law by the President on July 22, 1982.

The Act required that Federal agencies with research and research and development (R&R&D) budgets in excess of $100 million establish SBIR Programs. The funding of the SBIR Program is derived from fixed percentages of a participant agency's R&R&D budget.

At present, there are eleven (11) Federal agencies participating in the SBIR Program. They are listed on page 5.

In Fiscal Year 1983, the first year of the SBIR program, a total of 8,814 proposals were received by the SBIR agencies and approximately $44.5 million was awarded to small firms.

During Fiscal Year 1984, nearly 8,000 PHASE I proposals were received by the participating agencies and approximately $112 million was awarded to small business concerns under Phase I and Phase II of the SBIR Program.

The amount awarded under this program is expected to increase to approximately $500 million when the program is fully implemented in Fiscal Year 1987.

III. SBIR PROGRAM SOLICITATIONS AND PROPOSALS

The simplified SBIR Program Solicitation process affords small business concerns an excellent opportunity to propose innovative ideas that meet the Research and R&D needs of the Federal Goverment while potentially opening the door to future commercialization.

SBIR Program Solicitations contain detailed information on:

Research Topics

Instructions for the preparation of SBIR proposals

Release and closing dates

To obtain sufficient information on which to submit an SBIR proposal, you will need to contact the designated Federal agency and obtain a copy of the applicable solicitation. Copies of these solicitations are not available until their stated release date.

Under the SBIR Program, proposals are evaluated competitively by the participating Federal agencies to determine the best innovative solutions to the designated technical topics. SBIR Phase I proposals are limited to (25) pages.

SBIR Awards are made on a competitive basis. The selection criteria for this competitive process are further explained in the SBIR Program Solicitations released by each of the Federal agencies participating in the program.

IV. THE SBIR PROGRAM CONSISTS OF THE FOLLOWING THREE (3) PHASES

PHASE I - is to evaluate the scientific technical merit and feasibility of an idea. Awards of up to $50,000 with a period of performance normally not to exceed six months are involved.

ONLY PHASE I AWARDEES ARE ELIGIBLE FOR CONSIDERATION OF AWARD OF PHASE II.

PHASE II - is to expand on the results of and further pursue the development of Phase I. Awards of $500,000 or less with a period of performance normally not to exceed two years are involved.

PHASE III - is for the commercialization of the results of Phase II and requires the use of private or non-SBIR Federal funding. No SBIR funds may be utilized in this Phase.

V. ELIGIBILITY REQUIREMENTS

Only small business concerns with 500 or fewer employees that are organized for profit are eligible to receive SBIR awards.

Non-profit organizations and foreign based firms are not eligible to receive SBIR awards.

VI. The SBA/SBIR MAILING LIST

There is no single mailing list for all SBIR Program Solicitations. In order to receive copies, firms must request solicitations from each individual Federal agency that participates in the SBIR Program.

To assist small business concerns, the U. S. Small Business Administration publishes this SBIR Pre-Solicitation Announcement which contains pertinent data on all of the SBIR solicitations released each year by the participating Federal agencies.

The SBA Office of Innovation, Research and Technology maintains a computerized listing of firms that are provided with copies of the SBIR Pre-Solicitation Announcement on a regular basis. If you wish to be added to this list, please contact us at the following address:

Office of Innovation, Research
and Technology
U.S. Small Business Administration
1441 L Street, N. W., Room 500
Washington, D. C. 20416

For your convenience, a tear-out card is enclosed in this Announcement.

VII. SBA'S PROCUREMENT AUTOMATED SOURCE SYSTEM (PASS)

In addition, SBA's Office of Procurement and Technical Assistance has a Procurement Automated Source System (PASS) that maintains capability profiles of small businesses interested in Federal Government procurement opportunities. This system is used by Federal agencies and major prime contractors to identify small concerns with capabilities needed by the agencies or prime contractors. Being included in PASS could potentially lead to a contract or subcontract. For further information on the PASS program, you should contact:

Office of Procurement and
Technical Assistance
U.S. Small Business Administration
1441 L Street, N. W., Room 600
Washington, D. C. 20416

VIII. MASTER SCHEDULE OF SBIR SOLICITATIONS FISCAL YEAR 1986

AGENCY	RELEASE DATE	CLOSING DATE
Department of Agriculture	October 1, 1985	December 2, 1985
Department of Commerce	October 15, 1985	January 15, 1986
Department of Defense	October 1, 1985	January 31, 1986
Department of Education	January 29, 1986	March 31, 1986 *
Department of Energy	October 18, 1985	January 15, 1986
Department of Health & Human Services		
1. Public Health Service Health Care Financing Administration	October 1, 1985	December 6, 1985
2. Public Health Service	On or about January 15, 1986	April 15, 1986 August 15, 1986 December 15, 1986
Department of Transportation	February 13, 1986	May 1, 1986
Environmental Protection Agency	November 15, 1985	January 6, 1986
National Aeronautics & Space Administration	April 25, 1986 *	June 30, 1986 *
National Science Foundation	April 15, 1986 *	July 15, 1986
Nuclear Regulatory Commission	January 13, 1986	March 28, 1986

NOTE: The above dates may be subject to change by the participating agencies due to administrative reasons.

* Revised Dates

IX. FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

The RELEASE DATE for this SBIR Program Solicitation is: April 25, 1986 *

The CLOSING DATE for receipt of PHASE I proposals is June 30 1986 *

* Revised Dates

Requests for copies of this SBIR Program Solicitation should be directed to:

SBIR Program Manager
CODE IR
National Aeronautics and Space Administration
Washington, D. C. 20546

Telephone requests for this solicitation will not be accepted.

All other SBIR related inquiries may be directed to: (not for copies of solicitation)

John Del Gobbo - Manager SBIR
Code IR
National Aeronautics and Space Administration
Washington, D. C. 20546
Telephone: (202) 453-8702

The National Aeronautics and Space Administration anticipates making approximately 110 PHASE I awards of up to $50,000 each under this solicitation.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

1. Aeronautical Propulsion and Power
2. Aerodynamics and Acoustics
3. Aircraft Systems, Subsystems, and Operations
4. Materials and Structures

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

5. Teleoperators and Robotics
6. Computer Sciences and Applications
7. Information Systems and Data Handling
8. Instrumentation and Sensors
9. Spacecraft Systems and Subsystems
10. Space Power
11. Space Propulsion
12. Human Habitability and Biology in Space
13. Quality Assurance, Safety, and Check-Out for Ground and Space Operations
14. Satellite Communications
15. Materials Processing, Micro-Gravity, and Commercial Applications in Space

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

The RELEASE DATE for this SBIR Program Solicitation is: April 15, 1986

The CLOSING DATE for receipt of PHASE I proposals is: July 15, 1986

Copies of the NSA SBIR Solicitation may be obtained from the following:

National Science Foundation
Forms & Publications Office
1800 G St., N.W., Room 232
Washington, D. C. 20550
Telephone: (202) 357-7861

All other SBIR-related inquiries may be directed to:

Roland Tibbetts or Ritchie Coryell
Program Managers, SBIR
National Science Foundation
1800 G St., N. W., Room 1250
Washington, D. C. 20550
Telephone: (202) 357-7527

The estimated number for 1986 PHASE I awards is 115 at an approximate amount of up to $40,000 each under this solicitation.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

Subtopics include but are not limited to those listed.

1. Physics

Scientific Instrumentation
Particle Detectors
Ion Sources Instrumentation
Optical Devices
Electronics
Specialized Computers
Data Acquisition Systems
Industrial Applications
Telecommunication and Networking Devices

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

2. Chemistry

Chemical Synthesis
Inorganic and Organometallic Chemistry
Chemical Characterization

3. Mathematical Sciences

Analytic Methods
Algebraic Methods
Statistical Methods
Geometric Methods
Stochastic Models
Computational Mathematics

4. Computer Science

Systems Design
Software Engineering
Intelligent Systems

5. Materials Research

Metallurgy
Ceramics
Polymers
Solid State Physics
Solid State Chemistry
Low Temperature Physics
Instrumentation

6. Cellular Biosciences

Plant and Animal Cell Culture
Chemical Messengers
Genetic Technologies
Cellular Technologies
Immunological Technologies

7. Molecular Biosciences

Biochemistry
Molecular Plant Biology
New Bioresources
Instrumentation and Software

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

8. Biotic Systems and Resources

Reconstruction of Ecosystems
Integrated Pest Management
Freshwater Aquaculture
Lake Management

9. Behavioral and Neural Sciences

Archaeological Methods
Anthropological Methods
Linguistics
Behavioral Studies
Neural Science Studies

10. Social and Economics Sciences

Decisionmaking under Uncertainty
Economics
Innovation
Geographical Information Systems

11. Information Science and Technology

Information Generation/Representation
Information Management/Retrieval
Electronic Information Exchange
User Augmentation
System-user Interface

12. Astronomical Sciences

Visible Light Detectors
Infrared Detector Arrays
Millimeter Wavelength Instrumentation
Optical Coating Technology
Systems for Data Handling and Analysis

13. Atmospheric Sciences

Measurement of Physical Properties
Measurement of Chemical Properties
Analytical Methods

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

14. Earth Sciences

Crustal Studies
Analytical Measurements
Field Measurements
Stress/strain Measurements
Seismological Measurements
Synthetic Materials
Physical Properties Measurement
Drilling Technology and Logging

15. Ocean Sciences

Marine Forecasting
Oceanographic Instrumentation
Marine or Estuarine Aquaculture

16. Polar Programs

Frost Action
Geophysical and Space Technologies
Biotechnology
Expedient and Long-Term Operations and Construction

17. Electrical, Computer, and Systems Engineering

Solid-state and Microstructures
Communications Systems and Signal Processing
Systems Theory and Operations Research
Quantum Electronics, Waves and Beams
Instrumentation, Sensing and Measurement

18. Chemical, Biochemical and Thermal Engineering

Photochemical and Electrochemical Processes
Biochemical Engineering
Biomass Engineering
Food Processes Engineering
Separation and Purification Processes
Multiphase and Interfacial Phenomena
Combustion and High Temperature Systems

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

19. Mechanics, Structures and Materials Engineering

Solid Mechanics
Structures and Building Systems
Fluid Dynamics and Hydraulics
Tribology
Dynamic Systems and Control
Materials Engineering and Processing

20. Design, Manufacturing, and Computer Engineering

Robotics
Computer Engineering
Design Methodology and Automated Design
Advanced Manufacturing Processes
Forming, Machining, Laser Processing
Inspection, Assembly and Joining
New Unit Operations

21. Emerging and Critical Engineering Systems

Biotechnology
Bioengineering
Research to Aid the Handicapped
Lightwave Technology
Earthquake Hazard Mitigation
Environmental Engineering
Systems Engineering for Large Structures
Natural and Man-made Hazard Mitigation

22. Advanced Scientific Computing

Supercomputer Software Research
Improving Software Productivity and Computation
Porting Language Compilers
Language and Programming Environments
Numerical Analysis and Algorithm Development for Parallel Processing

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NUCLEAR REGULATORY COMMISSION

The RELEASE DATE for this SBIR Program Solicitation is: January 13, 1986

The CLOSING DATE for receipt of PHASE I proposals is: March 28, 1986

Requests for copies of this SBIR Program Solicitation and all other SBIR related inquiries should be directed to:

U. S. Nuclear Regulatory Commission
Division of Contracts
Technical Contracts Branch (SBIR)
Washington, D. C. 20555
(301) 492-4294

The Nuclear Regulatory Commission anticipates making approximately 7 PHASE I awards of up to $50,000 each under this solicitation.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

1. Nuclear Power Plant Aging and Residual Lifetime Evaluation
2. Mechanical and Structural Engineering
3. Materials Engineering (Concentrating on Primary System Integrity)
4. Electrical Equipment Qualification (Including Fire Protection)
5. Chemical Engineering
6. Reactor System Behavior Under Accident Conditions
   a. Automatic Preparation of Code Input Decks
   B. Gathering Plant-Specific Data
   C. Code Conversion for the Best Estimate Code

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

NUCLEAR REGULATORY COMMISSION

7. Fuel Assembly Behavior Research
8. Containment Analysis
9. Development and Use of a Seismic Root Cause Analysis Approach
10. Waste Management
11. Radiation Protection and Health Effects

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

UNITED STATES DEPARTMENT OF EDUCATION

The RELEASE DATE for this SBIR Program Solicitation is: January 29, 1986

The CLOSING DATE for receipt of PHASE I proposals is March 31, 1986

Requests for copies of this SBIR Program Solicitation should be directed to:

SBIR Program
U. S. Department of Education
Office of Educational Research and Improvement
Washington, D. C. 20208

Requests for the full solicitations will be greatly expedited if the requestor will send TWO (2) PLAIN, SELF-ADDRESSED GUMMED MAILING LABELS to the address given above.

All other SBIR related inquiries may be directed to:

Mr. John Christensen
SBIR Program Coordinator
Office of Education Research and Improvement (OERI)
U. S. Department of Education
Mail Stop 1727
Washington, D. C. 20208
(202) 254-8227

The U. S. Department of Education anticipates making approximately 14 PHASE I awards of up to $30,000 each under this solicitation.

The Department of Education has selected for its FY 1986 Phase I SBIR solicitation a number of technical topics that are relevant to both handicapped and non-handicapped populations. Projects that look to the future by exploring uses of technology that are not currently affordable by schools (or in other settings), but that probably will be affordable within the next few years, are especially appropriate for this program.

Because of budgetary considerations, it may be that some of the technical topics listed below will not appear in the final solicitation.

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

UNITED STATES DEPARTMENT OF EDUCATION

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

1. Simplifying and Improving the Creation of Software
2. Input and Output Mechanisms and Devices
3. Research and Development of Models, Guides and Plans for Handicapped Populations
4. Improving the Usability of Software
5. Technology for Training and Placement of Handicapped Persons
6. Innovative Approaches to Bilingual Education
7. Application of Technology to the Teaching of Uncommonly Taught Modern Foreign Languages
8. Vocational Education and Technology Applications - (WITHDRAWN)
9. Innovative Approaches to Learning and Instruction at the Elementary School Level
10. Innovative Application of Technology to the Communication of Research Results
11. Innovative Approaches to Management of Educational Research Programs at the Federal Level
12. Innovative Approaches to Instruction of Adult Learners
13. Innovative Approaches to the Assessment of Educational Outcomes

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

The RELEASE DATE for this SBIR Program Solicitation of the Public Health Service is: On or about January 15, 1986

The CLOSING DATE for the receipt of PHASE I proposals is: April 15, 1986
August 15, 1986
December 15, 1986

Requests for copies of this solicitation should be directed to:

SBIR Solicitation Office
3202 Monroe Street
Suite 300
Rockville, MD 20852
(301) 231-6378

The Public Health Service anticipates making approximately 275 awards in this PHASE I cycle. Awards will be in average amounts of $50,000 each.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS PROGRAM SOLICITATION ARE LISTED BELOW:

NATIONAL INSTITUTES OF HEALTH

National Institute on Aging (NIA)

Biomedical and Clinical Research on Aging

Behavioral Sciences Research on Aging

Contact:

Dr. Alan Pinkerson
Building 31, Room 5C06
Bethesda, MD 20892
(301) 496-9322

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

National Institute of Allergy and Infectious Diseases (NIAID)

Immunology, Allergic and Immunologic Diseases

Microbiology and Infectious Diseases

Contact:

Dr. John Diggs
Westwood Building, Room 703
Bethesda, MD 20892
(301) 496-7291

National Institute of Arthritis, Diabetes and Digestive and Kidney Diseases (NIADDKD)

Arthritis, Musculoskeletal and Skin Diseases

Diabetes, Endocrinology and Metabolic Diseases

Digestive Diseases and Nutrition

Kidney, Urologic and Hematologic Diseases

Contact:

Mr. John Garthune
Westwood Building, Room 655
Bethesda, MD 20892
(301) 496-7793

National Cancer Institute (NCI)

Cancer Biology and Diagnosis

Contact:

Mr. Louis Greenberg
Westwood Building, Room 10A10
Bethesda, MD 20892
(301) 496-5307

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

Cancer Etiology

Contact:

Dr. John A. Cooper
Landow Building, Room 8C41
Bethesda, MD 20892
(301) 496-1882

Cancer Treatment

Contact:

Dr. Gregory Curt
Building 31, Room 3A49
Bethesda, MD 20892
(301) 496-6711

Cancer Prevention and Control

Contact:

Dr. James Callahan
Building 31, Room 4A32
Bethesda, MD 20892
(301) 496-9569

National Institute of Child Health and Human Development (NICHD)

Population Research

Research for Mothers and Children

Contact:

Dr. Duane F. Alexander
Building 31, Room 2A04
Bethesda, MD 20892
(301) 496-1848

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Institute of Dental Research (NIDR)

Caries

Periodontal Diseases

Craniofacial Anomalies

Restorative Materials

Pain Control and Behavioral Studies

Oral Ulcerative Diseases and Saliva Studies

Contact:

Dr. Thomas Valega
Westwood Building, Room 510
Bethesda, MD 20892
(301) 496-6324

National Institute of Environmental Health Sciences (NIEHS)

Test Methods for Assessing the Biological Effects of Environmental Agents

Specialized Products for Use in Toxicology Studies

Development of Products/Devices for Measuring Exposure to Toxic Agents

Development of Alternative Designs/Methods for Toxicity/Carcinogenicity Assessment

Contact:

Dr. Michael J. Galvin, Jr.
P. O. Box 12233
Research Triangle Park, NC 27709
(919) 541-7825

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Eye Institute (NEI)

Retinal and Choroidal Diseases

Corneal Diseases

Cataract

Glaucoma

Strabismus, Amblyopia, and Visual Processing

Low Vision and Rehabilitation

Contact:

Dr. Ronald Geller
Building 31, Room 6A04
Bethesda, MD 20892
(301) 496-4903

National Institute of General Medical Sciences (NIGMS)

The Cellular and Molecular Basis of Disease

Genetics

Pharmacological Sciences

Physiology and Biomedical Engineering

Contact:

Dr. Elke Jordan
Westwood Building, Room 953
Bethesda, MD 20892
(301) 496-7061

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Heart, Lung and Blood Institute (NHLBI)

Heart and Vascular Diseases

Lung Diseases

Blood Diseases and Resources

Contact:

Dr. Henry Roscoe
Westwood Building, Room 7A14
Bethesda, MD 20892
(301) 496-7225

National Institute of Neurological and Communicative Disorders and Stroke (NINCDS)

Communicative Disorders

Fundamental Neurosciences

Stroke and Trauma

Convulsive, Developmental and Neuromuscular Disorders

Demyelinating, Atrophic and Dementing Disorders

Contact:

Dr. Donald Luecke
Federal Building, Room 1016
Bethesda, MD 20892
(301) 496-4188

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

Division of Research Resources (DRR)

Instrumentation and Specialized Technologies for Biomedical Research

Research in Laboratory Animal Sciences

Development of Biomedical Research Methods Employing Lower Organisms, Tissue/Cells in Culture or Mathematical and Computer Simulations

Development of Systems for Management of Clinical Research Information

Contact:

Dr. James O'Donnell
Building 31, Room 5B03
Bethesda, MD 20892
(301) 496-6023

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

The RELEASE DATE for this SBIR Program Solicitation is: February 13,1986

The CLOSING DATE for receipt of PHASE I proposals is: May 1, 1986

Requests for copies of this SBIR Program Solicitation should be directed to:

DOT SBIR Program Office, DTS-23
U.S. Department of Transportation
Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Attention: Dr. George Kovatch
(617) 494-2051

SBIR-related inquiries may be directed to the above-cited Office.

The U. S. Department of Transportation anticipates making approximately 20 PHASE I awards of up to $50,000 each under this solicitation.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

FEDERAL AVIATION ADMINISTRATION

1. Human Error Reduction in Radionavigation Operations
2. Artificial Intelligence Applications to Alerting and Warning Systems for General Aviation Aircraft
3. Wind Velocity Determination
4. Advanced Display Technology for Air Traffic Control
5. Aircraft Engine Stall/Surge Margin Sensor
6. Concealed Weapon Detection Technique
7. Tests For Material Strength During Fire Exposure
8. Attenuation of Fire Radiation Through Water Sprays or Fogs

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

9. Techniques for Defect Characterization in Structures

10. Techniques for Low-Cost High Accuracy Terminal Area Navigation

11. Post-Crash Aircraft Jet Fuel-Fed Fire Prevention

12. Wake-Vortex Visualization Techniques

13. Methodology for Correlation of ATC Controller Workload and Errors

14. Optimization of Student Training Methods and Environment for Computer-Based-Instruction (CBI)

15. Desorption of Explosive Vapors From Passenger Clothing

16. Wake Vortex Characterization

17. Adhesion of Patching Materials to Existing Pavements

FEDERAL HIGHWAY ADMINISTRATION

1. Safety and Traffic Operations

2. Highway Operations

3. Pavements and Structures

MARITIME ADMINISTRATION

1. Control, Communications and Navigation for Commercial Ships

2. Power and Cargo Handling Subsystems for Commercial Ships

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

1. Alcohol Program Training and Countermeasures

2. Emergency Medical Services Provision of Audio-Visual Products

3. Passenger Car Safety: Occupant Compartment Countermeasures

4. Development of Angular Accelerometer/Contact Area Sensors

5. Analysis Techniques for Estimating Roof Crush Severity in Motor Vehicle Crashes

FEDERAL RESEARCH AND R&D TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

6. Advanced Steering System Concepts

7. Heavy Truck Anti-Aggressiveness Countermeasures

UNITED STATES COAST GUARD

1. Fire-Retardant Work Clothes

2. Underwater Non-Destructive Testing

URBAN MASS TRANSPORTATION ADMINISTRATION

1. Mass Transportation Passenger Protection

2. Mass Transportation Competition and Involvement of the Private Sector

3. Mass Transportation Revenue Maximization

4. Protecting Investment in Mass Transportation Capital

X. PARTICIPATING FEDERAL AGENCY SBIR REPRESENTATIVES

Department of Agriculture

Dr. Olga v.H. Owens
Office of Grants and Program Systems
Department of Agriculture
Washington, D. C. 20250
(202) 475-5038

Department of Commerce

Mr. James P. Maruca
Director, Office of Small and
Disadvantaged Business Utilization
Department of Commerce
Room 6411
14th & Constitution Ave., N.W.
Washington, D. C. 20230
(202) 377-1472

Department of Defense

Mr. Horace Crouch
Director, Small Business and Economic Utilization
Policy
Office of the Secretary of Defense
Room 2A340 - The Pentagon
Washington, D. C. 20301-3061
(202) 697-9383

Department of Education

Mr. John Christensen
SBIR Program Coordinator
Office of Educational Research and Improvement (OERI)
Department of Education
Mail Stop 1727
Washington, D. C. 20208
(202) 254-8227

Department of Energy

Ms. Gerry Washington
c/o SBIR Program Manager
Department of Energy
Washington, D. C. 20545
(301) 353-5867

PARTICIPATING AGENCY SBIR REPRESENTATIVES

Department of Health and Human Services

Mr. Richard Clinkscales
Director, Office of Small and Disadvantaged
Business Utilization
Department of Health and Human Services
Room 513D
200 Independence Ave., S.W.
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(202) 245-7300

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XI. HOW TO OBTAIN THE SBIR PROPOSAL PREPARATION PAMPHLET

To assist small business concerns planning to participate in the SBIR Program with their selection of projects and preparation of proposals, this Agency has published a pamphlet entitled "PROPOSAL PREPARATION FOR SMALL BUSINESS INNOVATION RESEARCH (SBIR)" (SBIR T1).

Copies of this pamphlet may be obtained from the following regional offices of the U. S. Small Business Administration.

SBA Regional Office
60 Batterymarch
10th Floor
Boston, MA 02110

SBA Regional Office
26 Federal Plaza
Room 29-118
New York, NY 10278

SBA Regional Office
231 St. Asaphs Road
Suite 640-W
Bala Cynwyd, PA 19004

SBA Regional Office
1375 Peachtree St., N.E.
5th Floor
Atlanta, GA 30367

SBA Regional Office
230 South Dearborn St.
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Chicago, IL 60604

SBA Regional Office
8625 King George Drive
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SBA Regional Office
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SBA Regional Office
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SBA Regional Office
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